



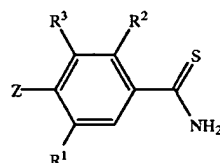
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(12) **United States Patent**
Linker et al.(10) **Patent No.:** US 6,331,507 B1
(45) **Date of Patent:** Dec. 18, 2001(54) **SUBSTITUTED AROMATIC
THIOCARBOXYLIC ACID AMIDES AND
THEIR USE AS HERBICIDES**5,204,352 4/1993 Sundberg et al. 514/258
5,639,770 * 6/1997 Chihiro et al. 514/365
6,077,813 * 6/2000 Linker et al. 504/272(75) **Inventors:** Karl-Helz Linker; Kurt Flindelsen,
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(DE)(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.(21) **Appl. No.:** 09/470,583(22) **Filed:** Dec. 22, 1999**Related U.S. Application Data**(62) Division of application No. 08/732,257, filed as application
No. PCT/EP95/01507 on Apr. 21, 1995, now Pat. No.
6,077,813.(30) **Foreign Application Priority Data**May 4, 1994 (DE) 44 15 655
Jan. 19, 1995 (DE) 195 00 439(51) **Int. Cl.⁷** A01N 43/40; C07D 211/34(52) **U.S. Cl.** 504/244; 504/248; 504/254;
546/220; 546/221; 546/233; 546/296; 546/300(58) **Field of Search** 504/243, 249,
504/273, 276, 281, 283, 244, 248, 254;
544/312; 346/220; 548/262.4, 262.8, 263.2,
302.7, 360.1, 547; 546/220, 221, 233, 296,
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Primary Examiner—Richard L. Raymond(74) **Attorney, Agent, or Firm**—Norris McLaughlin &
Marcus(57) **ABSTRACT**There is disclosed substituted thiocarboxamides of the gen-
eral formula (I)

(I)



useful as herbicides.

5 Claims, No Drawings